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and on First results from a new diffraction ruling engine, by Prof. Wm. A. Rogers; on Crystallization of Canada Balsam, by Prof. Geo. F. Barker; on the Occurrence of microscopic crystals in the vertebra of the toad, by Prof. H. Carrington Bolton. Prof. S. A. Lattimore was elected chairman, and Rev. A. B. Hervey, secretary of the sub-section of microscopy for the next meeting, which is to be held in Boston, commencing on the last Wednesday in August next, and which can hardly fail to be a large and enthusiastic assemblage.

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PROCEEDINGS OF SCIENTIFIC SOCIETIES.

AMERICAN ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE, Twenty-eighth meeting, Saratoga, Aug. 27 to Sept. 2, 1879.—Owing to the favorable place of meeting, the gathering of members was larger than for several years, nearly 260 members being present, and 154 papers, some of unusual interest, having been entered. Prof. O. C. Marsh, president of the St. Louis meeting, read an address as retiring president, on the History and Methods of Palæontology. Prof. George F. Barker, as president, made a brief introductory speech at the opening of the session. The following papers on biology, geology and anthropology were presented:

The succession of glacial deposits in New England.....	Warren Upham
On the thinning out and absence of the Upper Silurian and Devonian formations in Tennessee. On a remarkable crinoidal form recently discovered in Tennessee, with exhibition of specimens.....	J. M. Safford
Recently discovered cupreous veins at Blue Hill, Me. The Green mountain anticlinal.....	C. H. Hitchcock
Consonantal expression of emotion.....	Clarence J. Blake
On the fertilization of Yucca. Objects of sex and of odor in flowers.....	Thomas Meehan
Philosophy of the pupation of butterflies, and particularly of the Nymphalidæ. The cotton worm in the United States; explanation of its work, and mooted points in its habits cleared up.....	C. V. Riley
On the conditions to be fulfilled by a theory of life. On the histology of insects. On the anatomy of Plathelminthes..	Chas. Sedgwick Minot
A short biography of the Menhaden.....	G. Brown Goode
Practical illustration of the use of some new or little known anatomical and physiological instruments and apparatus. Notes on the anatomy of the cat's brain. On a cat's brain with the corpus callosum absent.....	B. G. Wilder
On the occurrence of microscopic crystals in the vertebra of the toad (<i>Bufo americanus</i>). [With a note by A. A. Julien.].....	H. Carrington Bolton.
The ethnical influences of physical geography.....	Danl. Wilson
The development of the neuration in the wings of insects, as illustrated in the history of cockroaches.....	S. H. Scudder
On graphite from the Ducktown copper mine.....	W. L. Dudley
On the geology of Bermuda.....	Wm. North Rice
Sexual differentiation in <i>Epigæa repens</i> . Homologies in the Lauracææ. Note on the movement of the stamens of <i>Sabbatia angularis</i>	Lester F. Ward
On the Triassic rocks of New Jersey.....	Geo. H. Cook

- An apparatus for photographing natural history objects in a horizontal position. The inter-articular ligaments of the head of the ribs in the cat. A method of demonstrating the thoracic arch in animals..... S. H. Gage
- The bud-blight insect. Some interesting insect habits and their development. A successful moth trap..... W. S. Barnard
- On the present condition of the work upon the palæontology of New York. Notes upon the genera *Fenestella*, *Hemitrypa*, etc. The fauna of the Lower Helderberg group in relation to the corals, Bryozoa and Echinodermata..... James Hall
- On the molluscan dredgings in the Gulf of Mexico and vicinity by the U. S. Coast Survey steamer *Blake* in 1877-9. On the genus *Pleurotomaria*..... Wm. H. Dall
A. P. S. Stuart
- Gypsum sand..... Alexis A. Julien
- The geological action of the acid of Humus: I. On unconsolidated deposits; II. On solid rocks..... T. Sterry Hunt
- On some pre-Cambrian rocks in America and Europe. On the geology of Port Henry, N. Y. P. W. Sheaffer
- On the anthracite coal fields of Pennsylvania and their rapid exhaustion Jno. W. Chickering, Jr.
- The newly discovered cave in Luray, Page county, Va. H. P. Bowditch
- A new form of unpolarizable electrodes for physiological research Wm. F. Hornaday
Edward P. Lull
- On the species of Bornean orangs, with notes on their habits; illustrated by specimens..... J. P. Lesley
- The Interoceanic Canal problem..... R. P. Whitfield
- On the progress of the Second Geological Survey of Pennsylvania Garrick Mallory
- Notice of the occurrence of rocks representing the Marcellus shales of New York in Central Ohio..... J. G. Henderson
S. S. Haldeman
- The sign language of the North American Indians..... Geo. H. Perkins
- Lake Erie and the Eries. Superstitions of the ancient inhabitants of the Mississippi valley relative to the rabbit. Superstitions among the ancient inhabitants of the Mississippi valley relative to serpents. Superstitions among the ancient inhabitants of the Mississippi valley relative to the owl. Superstitions among the ancient inhabitants of the Mississippi valley relative to thunder..... W. H. H. Russell
Henry B. Nason
Edward S. Morse
- Exhibition of archaeological objects..... John M. Currier
- Archæology of Champlain valley, giving a general account of recent discoveries..... Mrs. E. A. Smith
Louis Elsberg
- Archæology of Missouri..... Albert S. Bickmore
- Notice of some deposits of alkaline salts in Idaho..... F. W. Putnam
R. B. Hare
- Archæological notes from Japan..... J. C. Smock
- Description of a polished stone implement found in Monkton, Vt.
- The substances of amber and jade, illustrated by remarkable specimens.....
- On the explanation of hereditary transmission.....
- The ethnology of the islands of the Indian and Pacific oceans; illustrated by a large colored map.....
- On some large and remarkable stone implements of the southern mound-builders. On the pottery of the southern mound-builders.....
- The genesis of the serpentine of Reichenstein, etc.
- On the surface limits of thickness of the Continental glacier in New Jersey.....

The following officers of the association were elected for 1880, the meeting to be held at Boston, Mass.: President, Lewis H. Morgan, of Rochester; permanent secretary, F. W. Putnam, of Cambridge; general secretary, John K. Rees, of St. Louis; treasurer, William S. Vaux, of Philadelphia.

PROCEEDINGS OF THE ACADEMY OF NATURAL SCIENCES OF PHILADELPHIA, March 11.—The following papers were read: On the nudibranchiate gastropod Mollusca of the North Pacific ocean, by Dr. R. Bergh, and On the variability of *Sphæria quercuum* Schw., by J. B. Ellis.

March 15.—Dr. H. C. Chapman presented a paper for publication entitled, Notes on Amphiuma.

April 25.—Papers entitled, Placenta of *Macacus cynomolgus*, by H. C. Chapman, and Description of new species of Chirocephalus, by John A. Ryder, were presented for publication.

April 22.—Mr. Ryder described a new Pauropod from Fairmount Park, which he named *Eurypauropus spinosus*.

April 29.—Prof. Cope discussed the ancestry of the Rhinoceros family in the light of new material recently obtained from the western Tertiary.

May 6.—Prof. Cope described a new Saurian under the name of *Camarasaurus leptodermis*.

May 13.—Dr. Francis Dercum made a communication on the muciferous system of fishes, in which he sought to show their relation to the sensory system, as well as some new points in their structure.

May 20.—Prof. Kœnig made a communication regarding plastic clays in reference to their microscopic features.

May 27.—Dr. Dercum presented some farther results of his study of the muciferous canals.

June 3d.—Mr. Martindale recorded the fact of the abundance of *Volvox globator* in the hydrant water of Camden, N. J. Prof. Cope discussed the geological position of the White river fresh-water beds, assigning them to the same position as the Oligocene of Europe. He also offered some observations on the genus *Anchithurium*, and characterized a new species as *A. præstans*.

June 17.—Dr. Leidy exhibited the plates of his new work on rhizopods from the report of the Hayden Survey, for the inspection of the members, and described a new form under the name of *Nebela retorta*. Prof. Cope exhibited a skull of the new fossil cat, *Nimravus brachyops*.

June 24.—Mr. Meehan called attention to a remarkable instance of variation in the ray-petals of the flower of *Lonas*, from none at all to a form as well-marked as in the ox-eye daisy. Mr. Ryder described the larva of his recently described *Eurypauropus*.

July 1.—Prof. Cope presented a paper on the genera of cats, in which a re-arrangement of the species was proposed on the characters presented by the form of the pupil of the eye and the specialization of the dentition.

July 8.—Dr. Leidy described and named a new fossil foot-track from the Pennsylvania anthracite coal shale. Prof. Cope discussed the principal characters of the genera of Canidæ, new generic names being proposed for two domesticated forms which constantly present remarkable peculiarities of dentition. The first was called *Synagodus*, the second *Dysodus*, each represented by one species which Prof. Cope believed had the same generic ancestry as other domesticated dogs.